

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,911,330 B1
DATED : June 28, 2005
INVENTOR(S) : Z.-Q. Xia et al.

Page 1 of 4

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page, Item [54] and Column 1, line 1.

Title, "SECOISOLARICICIRE SINOL DEHYDROGENSASE" should read
-- SECOISOLARICIRE SINOL DEHYDROGENASE --.

Title page,

Item [56], **References Cited**, OTHER PUBLICATIONS,
"Herbers" reference, "Paathways" should read -- Pathways --.

Delete the following references:

"Davin, L.B. et al., "Lignin and Lignan Biochemical Paathways in Plants:
Unprecedented Discovery in Phenolic Coupling," *Anais da Academia Brasileira de Ciencias*, 67(3):363-378 (1995).

Umezawa et al., "Formation of Lignans (-)-Secoisolariciresinol and (-)-Matairesinol
with Forsythia intermedia Cell-free Extracts," *J. Biol. Chem.*, 266(16):10210-10217
(1991).

Umezawa et al., *J. Chem. Soc. Chem. Commun.*, 1990, 1405-1408.

Umezawa et al., *Biochem. Biophys. Res. Commun.*, 17(3):1008-1014 (1990).".

Item [57], **ABSTRACT**,

Line 1, "secoisolanciresinol" should read -- secoisolariciresinol --.

Column 1,

Line 59, "japonicusand" should read -- japonicus and --.

Column 3,

Line 7, "6:143-151(1999))." should read -- 6:143-151 (1999)). --.

Line 35, "Steinbiß," should read -- Steinbiß, --.

Column 4,

Line 4, "45c:1215-1221(1990))." should read -- 45c:1215-1221 (1990)). --.

Line 8, "(Adlercruetz," should read -- -(Adlercreutz, --.

Line 43, following "intermedia" delete "-" [hyphen].

Column 5,

Line 37, "FIG. (B)" should read -- FIG. 2(B) --.

Column 6,

Line 9, "A,G,C" should read -- A, G, C --.

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Column 8,

Line 19, "DEHY30RevB" should read -- DEHYF30RevB --.
Line 32, "DEHYF30REVB" should read -- DEHYF30RevB --.
Line 36, "cloned into TA vector," should read -- cloned into a TA vector, --.
Line 51, "5(primer," should read -- 5' primer, --.

Column 9,

Line 30, "biologicalproperties," should read -- biological properties, --.

Column 11,

Line 26, "beteroduplex" should read -- heteroduplex --.

Column 12,

Line 1, "Boculovirus" should read -- Baculovirus --.
Line 23, "promoter/secoisoiariciresinol" should read -- promoter/secoisolariciresinol --.
Line 58, "(Jones, *Genetics*" should read -- (Jones, *Genetics* --.

Column 13,

Line 42, "*Bio l.*" should read -- *Biol.* --.
Lines 48-49, "*Trasgenic*" should read -- *Transgenic* --.
Line 57, "secoisolarciresinol" should read -- secoisolariciresinol --.

Column 14,

Lines 39-40, "10(7):239-246" should not break.
Line 59, "brocolli," should read -- broccoli, --.
Line 61, "raddichio);" should read -- radicchio); --.

Column 15,

Line 3, "Chenopodacum" should read -- Chenopodiaceum --.
Line 21, "Aclinidia" should read -- Actinidia --.
Line 65, "insure" should read -- ensure --.

Column 16,

Line 7, "(Urlab" should read -- (Urlaub --.
Line 35, "BgII" should read -- BglI --.

Column 17,

Line 40, "(His₆).Tag" should read -- (His)₆.Tag --.

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Column 18,

Line 1, "pUCI18," should read -- pUC1 18, --.
Line 8, "(penicilinase)" should read -- (penicillinase) --.
Line 34, "proalburin" should read --proalbumin --.
Line 43, "al.,*Gene*" should read -- al., *Gene* --.

Column 20,

Line 15, "2',5' -diphosphate-Sepharose" should read -- 2',5'-diphosphate-Sepharose --.
Line 46, "(Thernolyne)" should read -- (Thermolyne) --.

Column 21,

Line 6, "266: 10210-10217(1991)." should read -- 266:10210-10217 (1991). --.
Line 10, "Secoisolarciresinol" should read -- Secoisolariciresinol --.
Line 15, " μ 1)." should read -- μ 1). --.
Line 37, "EtoAc" should read -- EtOAc --.

Column 22,

Line 6, "307(1981))." should read -- 307 (1981)). --.

Column 23,

Line 38, "15:516-521(1996))" should read -- 15:516-521 (1996)) --.
Line 39, "*plants*" should not be italicized.
Line 41, "(Oligotex-dt(Suspension," should read -- (Oligotex-dt Suspension, --.
Line 42, "ZAP-cDNAII" should read -- ZAP-cDNA II --.
Line 46, "*Edition*" should not be italicized.

Column 24,

Line 4, "DEHYF30RevB" should read -- DEHYF30RevB --.
Line 47, "198:78(1996))." should read -- 198:78 (1996)). --.
Line 65, "DEHYF30REVB" should read -- DEHYF30RevB --.

Column 25,

Line 54, "(-)-Secoisolarciresinol" should read -- (-)-Secoisolariciresinol --.

Column 26,

Line 24, "*intermedia*(control);" should read -- *intermedia* (control); --.
Line 31, "15:516-521(1996))." should read -- 15:516-521 (1996)). --.
Line 53, "Denhart's" should read -- Denhardt's --.

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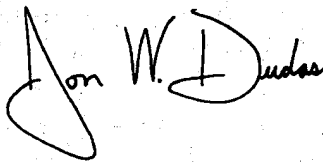
Column 55.

Line 29, "nucleic add" should read -- nucleic acid --.

Line 35, "secoisolarciresinol" should read -- -secoisolariciresinol --.

Signed and Sealed this

Twentieth Day of December, 2005

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the "J" and a cursive "Dudas".

JON W. DUDAS

Director of the United States Patent and Trademark Office